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VERSION DESCRIPTION DOCUMENT FOR THE GRIS CSCI v2.3

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1 SCOPE

1.1 IDENTIFICATION

This Version Description Document (VDD) identifies and describes the submission of the Global Command and Control System (GCCS) Reconnaissance Information System (GRIS) Computer Software Configuration Item (CSCI) Version 2.3.

1.2 SYSTEM OVERVIEW

GRIS provides automated support in planning, scheduling reporting, and monitoring reconnaissance activities under the Sensitive Reconnaissance Operations (SRO) program. GRIS maintains a near real-time status of all SRO missions and provides immediate on-line retrieval of mission, track, and message data. To accomplish this, GRIS provides automatic real-time capture and processing of Reconnaissance Information Processing System (RIPS) format messages, and maintains a mission and track database containing schedule and resultant information. GRIS is used to generate and release the outgoing SRO messages to the Automated Digital Network (AUTODIN) and provides on-line query and report capabilities detailing message, mission status, and scheduling information. It is used to maintain current Track Dictionary data and to generate the master copy of each new dictionary or set of change pages.

1.3 DOCUMENT OVERVIEW

This document contains information on the changes in the GRIS CSCI v2.3 release. Section 1 provides a system identification and overview, and an overview of this document. Section 2 contains a list of documents referenced in this report. Section 3 defines the version of GRIS and identifies changes made since the previous release. Section 4 provides a glossary and list of acronyms.

2 REFERENCED DOCUMENTS

2.1 GOVERNMENT DOCUMENTS

a. Specifications

None

b. Standards

None

c. Other Publications

1. Data Item Description, Version Description Document, DI-MCCR-80013A, Approval date 880229.

2.2 NON-GOVERNMENT DOCUMENTS

a. Specifications

None

b. Standards

None

c. Other Publications

(1) Global Command and Control System (GCCS) Reconnaissance Information System (GRIS) System/Segment Specification (SSS), CDRL A010, Rev.: Final, dated 28 April 1995.

(2) Operators Manual (OM) for the GRIS CSCI v2.2l, CDRL A033, Document Number: 250512, Rev.:-, Notice 1, dated 19 June 1995.

(3) Software Test Description for GRIS, CDRL A017, Document Number 250522, Rev.:-, dated 30 May 1995.

(4) System Administrator Manual (SAM) for GRIS, Rev.: -, Dated 21 August 1996.

3 VERSION DESCRIPTION

3.1 INVENTORY OF MATERIALS RELEASED

3.1.1 Physical Media

The GRIS CSCI v2.3 is delivered on 8mm tape. The tape was created on 20 August 1996 on a SUN Sparc 10 using the SUN Solaris 2.3 Operating System (OS). The tape was created using the tar relative '.' pathing method with the command "tar cvs GRIS". The software is unclassified. Only the runtime environment is delivered.

3.1.2 Associated Documentation

This VDD accompanies the GRIS v2.3 delivery. In addition, a System Administration Manual (SAM) is delivered as a replacement to the Installation Instructions dated 27 October, 1995.

3.1.3 Non-Delivered Documents

None

3.2 INVENTORY OF CSCI CONTENTS

Only the run-time files delivered with the GRIS 2.3 segment. The software is composed of Data files, and Executables and COE files.

Scripts
SegDescrip
data
help
progs
uid

./Scripts:
GRIS_info.csh
GRIS_warn.csh
amhs
check_oracle
elaboration_message
fixit
initialize
out_msg
patch_trans
pro_inc
rrprint
run_application
terminate

./SegDescrip:
Comm.deinstall
Community
DEINSTALL
Hardware
Menus
ModName
PostInstall
PreInstall
ReleaseNotes
ReqrdScripts
Requires
Security
SegType
VERSION
Validated

./data:
MASTER
Profiles
local
menus
pixmaps
prefs

./data/Profiles:
LaunchDesc.GRIS
LaunchList.GRIS
Profiles.GRIS

./data/local:
LOG_INIT
print

./data/local/print:

./data/menus:
Menu.GRIS

./data/pixmaps:
gris.img

./data/prefs:
BREAK
GRIS
MSN_MONITOR
STARTUP
STATUS

./help:
Addressee_Detail
Code_Detail
Code_Geographic_Area_Code_Index
Code_Icao_Code_Index
Code_Index
Code_Program_Code_Index
Code_Purpose_Code_Index
Code_Track_Code_Index
Databases
Error_Message
Finder_Query
General
Incoming_Message_Detail
Incoming_Message_Detail_1
Incoming_Message_Index

Incoming_Message_Query
Maintenance_Index
Maintenance_Query
Message_Lock_Detail
Message_Lock_Query
Messages
Misc
Mission_Cancellation_Query
Mission_Detail
Mission_Graph
Mission_History_Index
Mission_Index
Mission_Query
Mission_Recap_Query
Mission_Recap_Report
Mission_Report
Mission_Report.dml
Mission_Report.ovv
Monitor
Monitors
News
Nickname_Detail
Nickname_Index
Outgoing_Message_Detail
Outgoing_Message_Query
Password_Detail
Print
Status_Log_Index
System
Text_Detail
Track_Detail
Track_Dictionary_Index
Track_Dictionary_Query
Track_Dictionary_Report
Track_Event_Detail
Track_Event_Index
Track_Index
Track_Orbit_Detail
Track_Orbit_Index
Track_Query
Track_Report
Track_Track_Code_Index

./progs:
GRIS_amp
GRIS_break_driver
GRIS_driver
GRIS_load_data
GRIS_mission_monitor_driver
GRIS_navigate
GRIS_status_driver
GRIS_status_log_monitor_driver
mparter
run_amp
run_break
run_gris
run_load_data
run_mission_monitor
run_navigate
run_status
run_status_log_monitor

./uid:
break_uil.uid
gris_uil.uid
mission_monitor.uid
status_log_monitor.uid
status_uil.uid

3.3 CLASS I CHANGES INSTALLED

No Class I changes were installed in this release.

3.4 CLASS II CHANGES INSTALLED

GRIS v2.3 provides enhancements and fixes requested by GRIS end users.

3.5 ADAPTATION DATA

No changes were made to the site-unique data.

3.6 INTERFACE CAPABILITY

GRIS contains three external interface requirements (XIF-010 through XIF-030). The changes from 2.2.11 to 2.3 do not affect the GCCS AMHS for GRIS. As such, PRC believes that JITC re-testing of the GRIS CSCI is not required.

3.7 BIBLIOGRAPHY OF REFERENCE DOCUMENTS

GRIS v2.3 is delivered with this VDD. Three support documents, the Operators Manual, Software Test Description and a System Administrators Manual exist.

3.8 SUMMARY OF CHANGE

CHANGES TO GRIS V2.3 SINCE V2.2.11 include:

1. Added help on message error diagnostics to Incoming Message Detail. Help on specific errors can be accessed by pressing the More button inside the Incoming Message Detail help. Also, if you reprocess a message and a red error message stating that the message contains errors pops up, you can get the same specific information by pressing the Help button on the error window (just like for outgoing messages).

2. Added Delete button to Mission Detail History to enable a mission to be backtracked to a given state by simply deleting the item immediately following the desired state.

3. Fixed Track Event and Orbit Index to renumber items after an item has been deleted. Also, deleting a track event will renumber the items under Orbits (because they refer to events). You will not see the renumbering unless you leave the Track Event or Orbit Index and reenter.

4. Added a message sectionalizer to the back end of GRIS to sectionalize any outgoing message over 400 lines long.

5. Made confirmation screens configurable. You can turn them off by setting CONFIRMATION_ON in the config file to FALSE.

6. Made reprocessing on save configurable. If PROCESS_ON_SAVE in the config file is set to TRUE, Incoming Message Detail will reprocess a message when you hit the Save button. If it is FALSE, the Save button only saves the edited message, and you have to press Process to reprocess it.

7. Made replacing vs. adding of revised, reprocessed, and retransmitted messages configurable. If KEEP_LATEST_MESSAGE_ONLY in the config file is set to TRUE, revising, reprocessing, or retransmitting a message will always overwrite the old one. If it is FALSE, revising, reprocessing, or retransmitting will overwrite only a revised message; if the original message was anything else, a new message will be added.

8. The user config file (e.g. config.GCCS) is now checked before the project config vile (viz. config), so default config values placed in the project config file will be picked up if they are absent from the user config file or if the user config file doesn't exist at all.

9. Added this screen.

10. Added a Mission Schedule Message.

11. Changed Fresh Milk terminology to Daily Schedule.

12. If there are no frequencies in the Frequency code table, the Consolidated SRO message will not print them.

13. Replaced the Log from the Mission Query Menu with proper log format.

14. Made the following improvements to the Daily Mission Log:
    a. not breaking on DEFAULT HOUR/MINUTE - fixed
    b. actual times not getting reinitialized - fixed
    c. multi-day report breaking on scheduled takeoff time only - fixed
    d. STATUS moved to the second line
    e. report made less than 80 columns wide, so it can be printed in portrait mode.

15. Changed message while searching databases to 'Operation is x% complete'. To get this message, you must have the MONITOR trigger turned on. Added

this message to database dumps, purges, and reorganizes also.

16. Made database more robust so you won't get a Write_Before_Read error on a purge if you erroneously have duplicate records in the database.

17. Removed logic added in 2.2.9 which flagged RECON 3 messages for missions with a different nickname from their tracks. This was incompatible with mixed plate tracks.

18. Fixed a bug introduced into 2.2.9 in the Daily Mission Log: a non-null ACT value would be echoed for all subsequent missions whose ACT value was null.

19. Fixed the Track Summary portion of the Monthly Mission Recap Report and the Statistical Summary Message, so that tracks would appear only once per program.

20. Changed AMP not to check ATD set against ATA (which has not been set yet), because on a Relaunch it would be later than the former ATA, and so would be flagged as an error.

21. Added break capability. Breaks are configurable by changing the 'breaks' file located in the local directory.

22. Made it possible to configure the system so that query selections would be persistent on return from query.

23. Reformatted Mission History (2 lines with item number).

24. Fixed a bug in remark storage: if a remark was greater than 67 characters, only the characters after 67 were being stored in the Mission Database.

25. Added stand-alone RECON template generator. It depends on the recon table, and validates each message token as entered. It is also connected to the help file facility.

26. Added an error message for RECON 2 message events with event of TO or LN and a lat-long location, or with event other than TO or LN and an ICAO location.

27. Fixed a bug in RECON 2 message processing: track time was not getting set.

28. Moved all files created at run time to the gris data directory.

29. Made outgoing messages sensitive to JJJ and HHMM in header (for Julian dates and times).

30. Transmitting an outgoing message now goes through same code as retransmitted incoming messages (viz. the headers and footers are updated).

31. !MSNDATA set changed to MANDATORY in recon table.

32. GRIS will raise Code_List_Too_Small when trying to construct a Consolidated SRO Summary Message if there is only one frequency in the Frequency code table, because the same frequency cannot be used twice in a row.

33. Changed Track Report to print all 0's for null area time. This situation can only occur in data from the WWMCCS system, as GRIS will not allow null area times to be entered either via AMP or interactively.

34. Migrated GRIS to Oracle.

35. Fixed outgoing messages to update Julian date and time.

37. Added messages to differentiate between a spawned job failure and a timeout while waiting for the spawned job to finish.
38. Added version release number on the main window.

39. Dimmed Reorganize and Dump selections on the maintenance window.

40. Changed format of archive dumps to JSSC format.

41. Made 1MSNDATA set mandatory for all RECON 3 messages.

42. Changed mission result to override Deviation with Abort Complete/Incomplete. But Deviation will still override As Scheduled.

43. Fixed vertical expansion of Mission History that was occurring after deleting an item.

44. Made AMP warning messages to be displayed a configurable number of times, so they will not go on forever.

45. Added a dump of the user config file to startup.

46. Added an AMP log, which contains a time stamp the message DTG and the message state.

3.9 INSTALLATION INSTRUCTIONS

See the System Administrators Guide for. The following are reprinted from the ReleaseNotes:

1. Contact the GRIS user before installing the segment.

2. Determine where it makes sense to install GRIS.

3. Only install GRIS where it is NEEDED. DO NOT INSTALL GRIS ON EVERY CLIENT! Typically, there will only be ONE user.

To fully install this release, the following must occur:

1. Install the GRIS segment.

2. If the defaults are not satisfactory, have the site GRIS user set initial data values in the /h/GRIS/data/global/values/config file to appropriate values for the database sizes, etc.

3. For those sites converting from a WWMCCS RIS, they need to furnish a dump of their WWMCCS databases (track db and mission db) in the ascii WWMCCS dump format.

4. Run PostInstall to move the databases to the global data area and install the AMP cron job. The cron job can be found under /h/data/global/gris/amp, called "amp_cron". It must be installed manually. Determine who it makes sense to own this cron and install it as that user.

Use the command "crontab /h/data/global/gris/amp/amp_cron", PROVIDED that the user does not have any other cronjobs. Check first with the "crontab -l" command. If cronjobs exist, then edit the amp_cron into the cron table manually.

5. Run GRIS_load_data_jcs or GRIS_load_data_pac (depending on which site GRIS is being installed at) on the WWMCCS database dumps mentioned in step 3.

You will need the AMHS_CLT client to be installed on the GRIS client.

6. GRIS is configured for the following userids: GCCS. If any other userid is used, the file /h/GRIS/data/MASTER can be modified. Contact the GRIS Maintenace POC.

3.10 POSSIBLE PROBLEMS AND KNOWN ERRORS
NONE

4 NOTES

4.1 GLOSSARY

4.2 ACRONYMS

ACOM	U.S. Atlantic Command
AMHS	Automated Message Handling System
AUTODIN	Automated Digital Network
CDRL	Contract Data Requirement List
CENTCOM	U.S. Central Command
CM	Configuration Management
CNO	Chief of Naval Operations
COE	Common Operating Environment
CSCI	Computer Software Configuration Item
DISA	Defense Information Systems Agency
EUCOM	U.S. European Command
GCCS	Global Command and Control System
GRIS	GCCS Reconnaissance Information System
JMAS	Joint Mission Application System
JRC	Joint Reconnaissance Center
KPL	Known Problems List
NCCS	Navy Configuration Control System
OM	Operators Manual
OS	Operating System
PACOM	U.S. Pacific Command
PARMIS	PACOM Reconnaissance Information System
RIPS	Reconnaissance Information Processing System
ROD	Reconnaissance Operations Division
SOUTHCOM	U.S. Southern Command
SPAWAR	Space and Naval Warfare Systems Command
SPRs	Software Problem Reports
SPS	Software Product Specification
SRO	Sensitive Reconnaissance Operations
SRS	Software Requirement Specifications
VDD	Version Description Document
WWMCCS	Worldwide Military Command and Control System